

412 Rec'd PCT/PTO 2 2 FEB 2000

FORM PTO-1390 REV. 5-93		US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEYS DOCKET NUMBER <b>P99,1135</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>			U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>09/486134</b>
INTERNATIONAL APPLICATION NO. <b>PCT/DE98/02227</b> ✓	INTERNATIONAL FILING DATE <b>03 August 1998</b> ✓	PRIORITY DATE CLAIMED <b>22 August 1997</b> ✓	
TITLE OF INVENTION <b>APPARATUS HAVING A READJUSTMENT MECHANISM FOR READJUSTING AT LEAST ONE OPERATING PARAMETER</b> ✓			
APPLICANT(S) FOR DO/EO/US <b>Roland Hettrich et al.</b>			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay. 4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)) 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3)) a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <b>Items 11. to 16. below concern other document(s) or information included:</b> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report) 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. (See Attached Envelope) 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: a. <input checked="" type="checkbox"/> EXPRESS MAIL #EL470808682US dated 2-22-2000			

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) <b>09/486134</b>		INTERNATIONAL APPLICATION NO. <b>PCT/DE98/02227</b>		ATTORNEY'S DOCKET NUMBER <b>P99,1135</b>	
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17. <input checked="" type="checkbox"/> The following fees are submitted:  <b>BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5)):</b> Search Report has been prepared by the EPO or JPO ..... \$840.00  International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) .. \$720.00  No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) ..... \$790.00  Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO ..... \$1070.00  International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) ..... \$ 98.00  <div style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>				CALCULATIONS		PTO USE ONLY	

Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).				\$	
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Claims	Number Filed	Number Extra	Rate		
Total Claims	12 - 20 =		X \$ 18.00	\$	
Independent Claims	2 - 3 =		X \$ 78.00	\$	
Multiple Dependent Claims			\$260.00 +	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$840.00	
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 C.F.R. 1.9, 1.27, 1.28)				\$	
<b>SUBTOTAL =</b>				\$ 840.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 840.00	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property				+	
<b>TOTAL FEES ENCLOSED =</b>				\$ 840.00	
				Amount to be refunded	\$
				charged	\$

a. ☒ A check in the amount of \$ 840.00 to cover the above fees is enclosed.

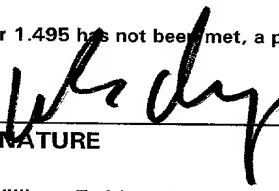
b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
overpayment to Deposit Account No. 08-2290. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be  
filed and granted to restore the application to pending status.

**SEND ALL CORRESPONDENCE TO:**

Hill & Simpson  
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85th Floor Sears Tower  
Chicago, Illinois 60606

  
\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
William E. Vaughan  
NAME

\_\_\_\_\_  
39,056  
Registration Number

BOX PCT

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE  
OF THE UNITED STATES PATENT AND TRADEMARK OFFICE  
UNDER THE PATENT COOPERATION TREATY-CHAPTER II

5

**PRELIMINARY AMENDMENT**

APPLICANTS: Roland Hettrich et al. DOCKET NO: P99,1135

SERIAL NO: GROUP ART UNIT:

EXAMINER:

10

INTERNATIONAL APPLICATION NO: PCT/DE98/02227

INTERNATIONAL FILING DATE: 03 August 1998

INVENTION: **APPARATUS HAVING A READJUSTMENT  
MECHANISM FOR READJUSTING AT LEAST ONE  
OPERATING PARAMETER**

Assistant Commissioner for Patents,  
Washington, D.C. 20231

Sir:

Please amend the above-identified International Application before  
entry into the National stage before the U.S. Patent and Trademark Office  
under 35 U.S.C. §371 as follows:

**In The Specification:**

On page 1, cancel lines 1-3 and substitute therefor:

**--S P E C I F I C A T I O N**

**TITLE**

**APPARATUS HAVING A READJUSTMENT MECHANISM FOR  
READJUSTING AT LEAST ONE OPERATING PARAMETER**

**BACKGROUND OF THE INVENTION**

**Field of the Invention**

The present invention relates to an apparatus having a readjustment  
mechanism for readjusting at least one operating parameter of the apparatus  
wherein an average value interval which is typically stored in a memory of

the apparatus may be overwritten with a momentary value of the operating parameter so as to define a position of the value interval.

**Description of the Prior Art.--**

On page 1, line 6, cancel "means" and substitute therefor --device--.

On amended page 1, line 17 insert --also-- before "must".

On page 1, line 12, insert a --,-- after "is".

On page 1, line 12, insert a --,-- after "thereby".

On page 1, line 13, cancel "from" and substitute therefor --, due to--.

On page 1, line 13, cancel "mistakenly that" and substitute therefor --mistake, which--.

On page 1, line 14, cancel "means" and substitute therefor --device--

On page 1, line 15, insert a --,-- after "is".

On page 1, line 15, insert --speaking,-- after "practically".

On page 1, line 17, cancel "ensue" and substitute therefor --occur--.

On page 1, line 18, cancel "practically" and substitute therefor --subsequently--.

On page 1, line 19, cancel "in such a case".

On page 1, line 20, cancel "There is a rather" and substitute therefor --A--.

On page 1, line 20, insert --exists-- after "situation".

On page 1, line 22, insert a --,-- after "condition".

On page 1, line 24, insert a --,-- after "readjustment".

On page 1, line 26, insert --present-- before "invention".

On page 1, line 26, insert --has been developed which-- after "invention".

On page 1, lines 27-28, cancel "comprising the features of claim 1".

On page 1, before line 29, insert the following centered heading:

**--SUMMARY OF THE INVENTION--**

On page 1, line 31, insert --present-- before "invention".

On page 2, line 2, cancel "therefor".

On page 2, line 4, cancel "particularly".

On page 2, line 5, cancel "means" and substitute therefor --device--.

On page 2, line 5, cancel the "," after "example".

On page 2, line 7, cancel "means" and substitute therefor --device--.

On page 2, cancel lines 11-12, and substitute the following paragraph therefor:

--Additional features and advantages of the present invention are described in, and will be apparent from, the Detailed Description of the Preferred Embodiments.--.

On page 2, before line 13, insert the following centered heading:

**--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--**.

On page 2, line 13, insert --present-- before "invention".

On page 2, line 13, cancel "proceeds on the basis of" and substitute therefor --is directed to--.

On page 2, line 17, insert --present-- before "invention".

On page 2, line 23, insert a --,-- after "is".

On page 2, line 23, insert a --,-- after "thus".

On page 2, line 26, cancel "Expediently" and substitute therefor --Preferably--.

On page 2, line 27, insert a --,-- after "width".

On page 2, line 27, cancel "can".

On page 2, line 27, insert --, can-- after "thereby".

On page 2, line 28, cancel "means".

On page 2, line 29, insert --a-- before "parameter".

On page 2, line 29, cancel "a".

On page 3, line 1, insert --present-- before "invention".

On page 3, line 2, cancel "means".

On page 3, line 6, cancel the “,”.

On page 3, line 14, cancel “b” and substitute therefor --by--.

On page 3, line 14, cancel “It” and substitute therefor --Thus, it--.

On page 3, line 14, cancel “thus”.

On page 3, line 16, cancel “means” and substitute therefor --device--

On page 3, line 19, insert --present-- before “invention”.

On page 3, line 20, insert --the-- before “new”.

On page 3, line 20, cancel the “,” and substitute therefor a --;--.

On page 3, line 21, insert a --,-- after “i.e.”.

On page 3, line 21, insert --the-- before “new”.

On page 3, line 22, insert --thus-- before “can”.

On page 3, line 22, cancel “thus”.

On page 3, line 22, cancel “realized” and substitute therefor --had--.

On page 3, line 28, insert --present-- before “invention”.

On page 4, line 1, insert --present-- before “invention”.

On page 4, line 1, cancel “thus”.

On page 4, lines 1-2, cancel “means for” and substitute therefor --a--.

On page 4, line 2, cancel “of” and substitute therefor --mechanism  
for--.

On page 4, line 2, cancel “whereby” and substitute therefor --  
wherein--.

On page 4, line 3, cancel “means”.

On page 4, line 4, cancel “whereby” and substitute therefor --such  
that--.

On page 4, line 6, cancel “, as” and substitute therefor --. As--.

On page 4, line 6, cancel “whereof”.

On page 4, line 11, cancel “, so that” and substitute therefor --. As  
such--.

On page 4, line 13, cancel "means" and substitute therefor --device--

On page 4, line 15, insert --present-- before "invention".

On page 4, line 16, cancel "means" and substitute therefor --device--

On page 4, line 18, cancel "means" and substitute therefor --device--

On page 4, line 19, insert --present-- before "invention".

On page 4, line 19, cancel "especially" and substitute therefor --particularly--.

On page 4, line 28, cancel "realization of" and substitute therefor --effecting--.

On page 4, line 28, insert --present-- before "invention".

On page 4, line 30, cancel "whereby" and substitute therefor --wherein--.

On page 4, line 31, insert --present-- before "invention".

On page 5, line 1, insert --present-- before "invention".

On page 5, after line 4 insert the following paragraph:

--Although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.--

On page 8, (last page) cancel lines 1-2 and substitute the following centered heading therefor:

**--ABSTRACT OF THE DISCLOSURE--**.

On page 8, line 4, cancel "In" and substitute therefor --An apparatus having a readjustment mechanism for readjusting at least one operating parameter wherein, in--.

On page 8, line 7, cancel "thereof".

On page 8, line 11, cancel "means" and substitute therefor --device--

On page 8, line 12, cancel "in practice".

On page 8, line 13, cancel "means" and substitute therefor --device--

**In the Claims:**

On page 6, cancel line 1 and substitute the following left-hand justified heading therefor:

**--We Claim As Our Invention--**

Please cancel claims 1-6, without prejudice, and substitute the following claims therefor:

7. An apparatus having a readjustment mechanism for readjusting at least one operating parameter of the apparatus, the apparatus comprising:

a memory;

means for storing an average of a value interval in the memory; and

means for overwriting the stored value with a momentary value of the operating parameter wherein, following a renewed readout of the stored average, the new momentary value defines a position of the value interval.

8. An apparatus having a readjustment mechanism for readjusting at least one operating parameter as claimed in claim 7, wherein an average value set at the factory is additionally stored and can overwrite the momentary value of the operating parameter such that, following a renewed readout of the stored average, the average value set at the factory defines the position of the value interval.

9. An apparatus having a readjustment mechanism for readjusting at least one operating parameter as claimed in claim 7, wherein



the operating parameter to be readjusted is a supply voltage of a display device of the apparatus.

10. An apparatus having a readjustment mechanism for readjusting at least one operating parameter as claimed in claim 9, further comprising:

a test image to be displayed on the display device during the readjustment, wherein the influence of the readjustment of the supply voltage of the display device can be observed by a user during the readjustment.

11. An apparatus having a readjustment mechanism for readjusting at least one operating parameter as claimed in claim 10, further comprising:

a chromatic display, wherein the test image shows areas of different colors during the readjustment, wherein the chromatic values are modified by the readjustment.

12. An apparatus having a readjustment mechanism for readjusting at least one operating parameter as claimed in claim 7, wherein, when the apparatus is turned off, the stored averages are overwritten with momentary values of corresponding operating parameters such that the values are read out as new averages when the apparatus is turned back on.

13. A method for readjusting at least one operating parameter of an apparatus, the method comprising the steps of:

storing an average of a value interval in a memory of the apparatus;  
overwriting the stored value with a momentary value of the operating parameter; and

defining a position of the value interval by the new momentary value following a renewed readout of the stored average.

5 14. A method for readjusting at least one operating parameter of an apparatus as claimed in claim 13, further comprising the steps of:  
storing an average set at the factory in the memory;  
overwriting the stored average with the average set at the factory;  
and  
10 defining the position of the value interval by the average set at the factory following a renewed readout of the stored average.

15 15. A method for readjusting at least one operating parameter of an apparatus as claimed in claim 13, wherein a supply voltage of a display device of the apparatus is the operating parameter to be readjusted.

20 16. A method for readjusting at least one operating parameter of an apparatus as claimed in claim 15, further comprising the step of:  
displaying a test image on the display device during the readjustment wherein the influence of the readjustment of the supply voltage of the display device can be observed by a user during the readjustment.

25 17. A method for readjusting at least one operating parameter of an apparatus as claimed in claim 16, wherein the test image shows areas of different colors during the readjustment, chromatic values thereof being modified by the readjustment.

18. A method for readjusting at least one operating parameter of an apparatus as claimed in claim 13, further comprising the step of:

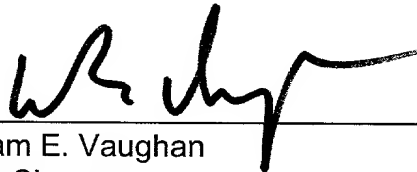
overwriting stored averages with momentary values of corresponding operating parameters when the apparatus is turned off, wherein the values are readout as new averages when the apparatus is turned back on.

**REMARKS**

The present amendment makes editorial changes and corrects typographical errors in the specification in order to conform the specification to the requirements of the United States Patent practice. No new matter is added thereby. Original claims 1-6 have been canceled in favor of new claims 7-18. However, claims 7-18 have been presented solely because the revisions by bracketing and underlining which would have been necessary in claims 1-6 in order to conform those claims to the requirements of United States Patent practice would have been too extensive, and thus would have been too burdensome. The cancellation of claims 1-6 does not constitute an intent on the part of the Applicant to surrender any of the subject matter of claims 1-6.

Early consideration on the merits is respectfully requested.

Respectfully submitted,



(Reg.No. 39,056)

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**SPECIFICATION****APPARATUS HAVING MEANS FOR READJUSTING AT LEAST ONE  
OPERATING PARAMETER**

5 A multitude of currently obtainable apparatus are equipped with  
display devices with whose assistance settings can be made at the  
apparatus and modified upon employment of an input means such as, for  
example, a keyboard. Examples of such apparatus are communication  
terminal equipment, particularly mobile radio telephone communication  
terminal equipment. For physical reasons, these display devices are subject  
10 to aging processes that make a readjustment of the supply voltage of such  
display devices necessary, particularly given liquid crystal displays.

There is thereby the possibility that the user undertakes a  
readjustment from ignorance or mistakenly that leads to the unuseability of  
the display means. The problem then arises that a further implementation  
15 or modification of settings at the apparatus is practically no longer possible  
since the entire user prompting and answer back of such modifications or  
settings would have to ensue over what is now an unuseable display. As a  
result, the user is practically dependent on the assistance of a service  
technician of his apparatus manufacturer in such a case.

20 There is a rather similar situation given completely different apparatus  
that have operating parameters available to them that must be occasionally  
readjusted. Here, too, there is the risk that an apparatus condition wherein  
specific risks can arise or from which the user can no longer escape by  
himself by readjustment is set as a result of improper setting and  
25 readjustment of operating parameters.

In order to avoid these problems, the invention provides an apparatus  
with means for readjustment of at least one operating parameter comprising  
the features of claim 1.

30 In order to prevent a readjustment of operating parameters of an  
apparatus into inexpedient ranges or to at least make this more difficult, the  
invention provides that the readjustment be limited by a value interval whose

average adapts to the momentary value of the operating parameter. As a result thereof, it is particularly the readjustment of operating parameters that are subject to modifications due to aging or slow environmental influences that is simplified. This is advantageous particularly when the readjustment relates to an operating parameter of a display means, for example, the supply voltage of a chromatic LCD display, because what is thereby prevented in practice is that a user makes the display means unuseable due to improper readjustment.

The inventive solution develops corresponding and similar advantages in other apparatus whose operating parameters must be readjusted.

The invention is described below on the basis of preferred exemplary embodiments.

The invention proceeds on the basis of an apparatus that has means available to it for readjusting at least one operating parameter of this apparatus. These can be analog controllers or input keys with which the values of a parameter can be modified dependent on the duration of or the number of times the key is pressed. The invention then provides that the readjustment of an operating parameter or of a plurality of operating parameters is limited by a value interval that is defined by an interval width and by an average.

The possible parameter values available for the readjustment thus lie within a value interval that extends within an interval width around an average. The smallest parameter value available for readjustment is thus the average diminished by half the interval width, and the greatest operating parameter value available for readjustment is the average increased by half the interval width. Expediently, the interval width of a value interval and the average are stored in the apparatus. The interval width can thereby be stored in a memory means specifically provided for this purpose or can be stored as parameter of a software.

In order to then assure that the position of the value interval can adapt to the modified requirements given aging of the apparatus or of a component part of the apparatus which makes a readjustment of operating parameters

necessary, the invention provides that the average of a value interval or the averages of a plurality of value intervals be stored such in a memory means of the apparatus that it is possible to overwrite the stored averages or the stored average with momentary parameter values.

5           Given slow changes of the conditions, this measure makes it possible to undertake a corresponding adaption of the position of the value interval, so that, despite the modification due to aging or due to environmental influences, it is ultimately always possible to set the required parameter values. At the same time, however, what is prevented is that parameter values that are significantly too high or significantly too low are unintentionally set.

10           Put in other words, one could speak of what is referred to as a sliding window (value interval) within which it is possible to adjust operating parameter values with continuous variation or by a few steps. It is thus not possible to depart from a meaningful or allowed range of the parameter values. Given the apparatus with a display means, in particular, it is thereby assured that an adjustment of the supply voltage of the display which makes reading of the display impossible cannot occur.

15           It is then provided in a preferred embodiment of the invention that the momentary parameter value is utilized as new average of the value interval, i.e. as new center of the value window. An extremely great range of adjustment (balancing range) can thus be realized over the useful life without rendering the display unuseable due to improper operation.

20           This is particularly important given color LCD displays since, in this case, the aging process dependent on environmental conditions such as, for example, the temperature can lead to a more or less pronounced color change. This can ultimately lead to unreadability of the display. As a result of the invention, a corresponding voltage balancing is implemented such that the color change can be always in turn reversed without creating the risk that the display becomes temporarily or permanently unreadable due to a faulty operation or misadjustment of the readjustment.

25           

30

In its basic form, the invention thus provides an apparatus with means for readjustment of at least one operating parameter, whereby a value interval whose average is stored in a memory means of the apparatus is available for the readjustment of an operating parameter, whereby the stored value can be overwritten with the momentary value of the operating parameter, as a result whereof, following a renewed readout of the stored average, the new value thereof defines the position of the value interval.

According to a preferred embodiment of the present invention, an average set at the factory is additionally stored invariably in the apparatus, and the momentarily stored average can be overwritten with the average set at the factory, so that, following a renewed readout of the stored average, the average set at the factory defines the position of the value interval.

Particularly given apparatus having a display means whose operating parameters must be readjusted, a further preferred embodiment of the invention is especially advantageous in accord wherewith the influence of the readjustment of the supply voltage of the display means can be observed by the user during the readjustment because a test image is displayed on the display means during the readjustment.

In this context, a specific embodiment of the invention is especially advantageous when the display is chromatic, in accord wherewith the test image shows areas or objects having different colors during the readjustment, the chromatic values thereof being modified by the readjustment.

An especially advantageous operation of the apparatus derives when stored averages are overwritten with momentary values of corresponding operating parameters when it is shut off, so that the values thereof are read out as new averages when the apparatus is turned on again.

The only thing to be provided for realization of the invention is a memory possibility for the averages of value intervals in an apparatus, whereby the possibility is to be provided that, dependent on the embodiment of the invention, these stored values are overwritten with the momentary parameter values dependent on specific use or operating actions or by

turning the apparatus off. Dependent on the embodiment of the invention, it is then provided that the new averages potentially stored at the moment in the apparatus are read out and employed as new averages of a value interval when the apparatus is turned on again.



**PATENT CLAIMS**

1. Apparatus having means for readjusting at least one operating parameter of the apparatus, characterized in that, for readjusting an operating parameter, a value interval is available whose average (MW) is stored in the memory means (SE) of the apparatus, whereby the stored value can be overwritten with the momentary value of the operating parameter (BPW), as a result whereof, following a renewed readout of the stored average, the new value thereof defines the position of the value interval.

2. Apparatus according to claim 1, whereby an average (WEM) set at the factory is additionally invariably stored, and whereby the momentarily stored average (MW) can be overwritten with the average (WEM) set at the factory, so that, following a renewed readout of the stored average, the average set at the factory defines the position of the value interval.

3. Apparatus according to one of the preceding claims, whereby the supply voltage (VS) of a display means (AE) of the apparatus is such an operating parameter to be readjusted.

4. Apparatus according to claim 3, whereby the influence of the readjustment of the supply voltage of the display means can be observed by the user during the readjustment because a test image (TB) is displayed on the display means during the readjustment.

5. Apparatus according to claim 4 comprising a chromatic display, whereby the test image shows areas or objects of different colors during the readjustment, the chromatic values thereof being modified by the readjustment.



**ABSTRACT****Apparatus Having Means for Readjusting at Least One Operating Parameter**

In order to prevent a readjustment of operating parameters of an apparatus into inexpedient ranges or to at least make this more difficult, the readjustment is limited by a value interval whose average adapts to the momentary value of the operating parameter. As a result thereof, it is particularly the readjustment of operating parameters that are subject to modifications due to aging or slow environmental influences that is simplified. This is particularly advantageous when the readjustment relates to an operating parameter of a display means, for example, the supply voltage of a color LCD display, because what is thereby prevented in practice is that a user makes the display means unuseable due to improper readjustment.

**Declaration and Power of Attorney For Patent Application****Erklärung Für Patentanmeldungen Mit Vollmacht****German Language Declaration**

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

Gerät mit Mitteln zur Nachregelung  
mindestens eines Betriebsparameters

deren Beschreibung

(zutreffendes ankreuzen)

☒ hier beigefügt ist.

☐ am \_\_\_\_\_ als

PCT internationale Anmeldung

PCT Anwendungsnummer \_\_\_\_\_

eingereicht wurde und am \_\_\_\_\_

abgeändert wurde (falls tatsächlich abgeändert).

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of which

(check one)

☐ is attached hereto.

☐ was filed on \_\_\_\_\_ as

PCT international application

PCT Application No. \_\_\_\_\_

and was amended on \_\_\_\_\_

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

# German Language Declaration

Prior foreign applications  
Priorität beansprucht

Priority Claimed

197 36 677.5 Germany 22. August 1997 ✓  
(Number) (Country) (Day Month Year Filed)  
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☒ ☐  
Yes No  
Ja Nein

\_\_\_\_\_  
(Number) (Country) (Day Month Year Filed)  
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐  
Yes No  
Ja Nein

\_\_\_\_\_  
(Number) (Country) (Day Month Year Filed)  
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐  
Yes No  
Ja Nein

Ich beanspruche hiermit gemäss Absatz 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmeldungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 122 offenbart ist, erkenne ich gemäss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmeldung bekannt geworden sind.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application Serial No.)  
(Anmeldeseriennummer)

\_\_\_\_\_  
(Filing Date)  
(Anmeldedatum)

\_\_\_\_\_  
(Status)  
(patentiert, anhängig,  
aufgegeben)

\_\_\_\_\_  
(Status)  
(patented, pending,  
abandoned)

\_\_\_\_\_  
(Application Serial No.)  
(Anmeldeseriennummer)

\_\_\_\_\_  
(Filing Date)  
(Anmeldedatum)

\_\_\_\_\_  
(Status)  
(patentiert, anhängig,  
aufgeben)

\_\_\_\_\_  
(Status)  
(patented, pending,  
abandoned)

Ich erkläre hiermit, dass alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstattliche Erklärung in Kenntnis dessen abgebe, dass wissentlich und vorsätzlich falsche Angaben gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gefängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Angaben die Gültigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: (Name und Registrationsnummer anführen)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

And I hereby appoint

Messrs. John D. Simpson (Registration No. 19,842), Lewis T. Steadman (17,074), William C. Stueber (16,453), P. Phillips Connor (19,259), Dennis A. Gross (24,410), Marvin Moody (16,549), Steven H. Noll (28,982), Brett A. Valiquet (27,841), Thomas I. Ross (29,275), Kevin W. Guynn (29,927), Edward A. Lehmann (22,312), James D. Hobart (24,149), Robert M. Barrett (30,142), James Van Santen (16,584), J. Arthur Gross (13,615), Richard J. Schwarz (13,472), and Melvin A. Robinson (31,870), David R. Metzger (32,919), John R. Garrett (27,888), all members of the firm of Hill, Steadman & Simpson, A Professional Corporation.

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Unterschrift des Erfinders <i>Roland Hettrich</i>	Inventor's signature _____
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(Supply similar information and signature for third and subsequent joint inventors).

3-10

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Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	
Staatsangehörigkeit		Citizenship	
Postanschrift		Post Office Address	

(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).